

rig. TOP

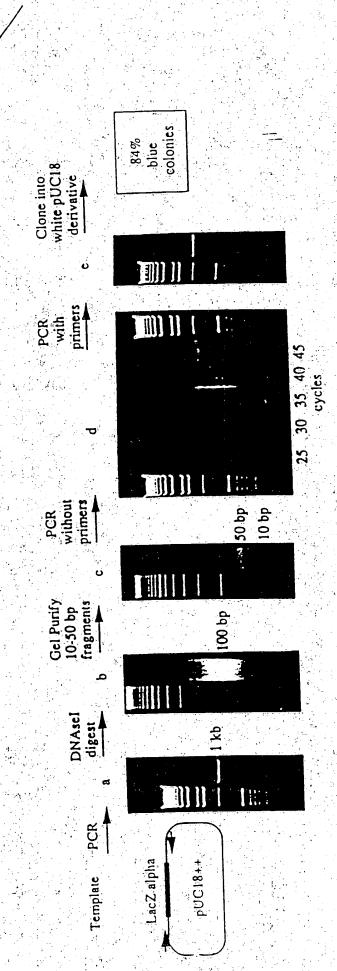


FIG. 2

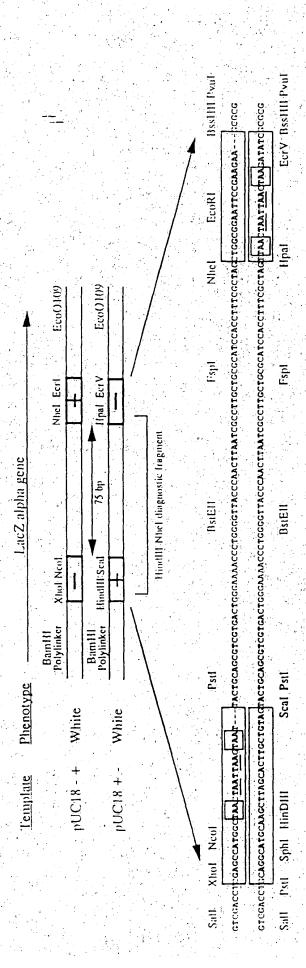
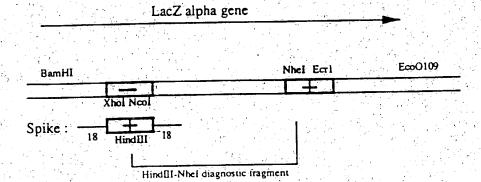


Figure 4



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M costracticarches to the control of the control of

A10B = scFv of anti-R-IgG antibody (Pharmacia)

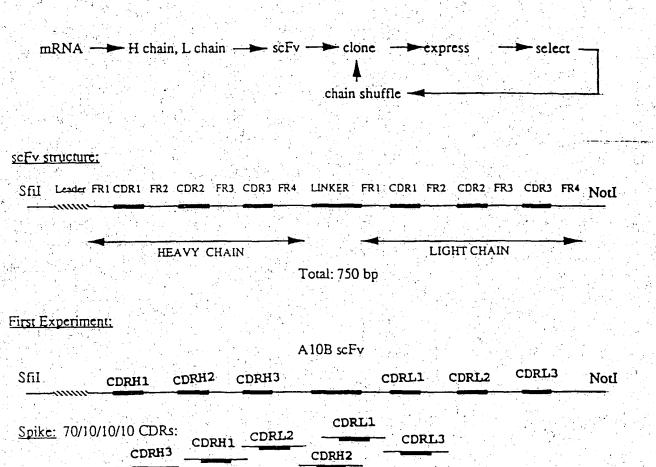


FIG. 6

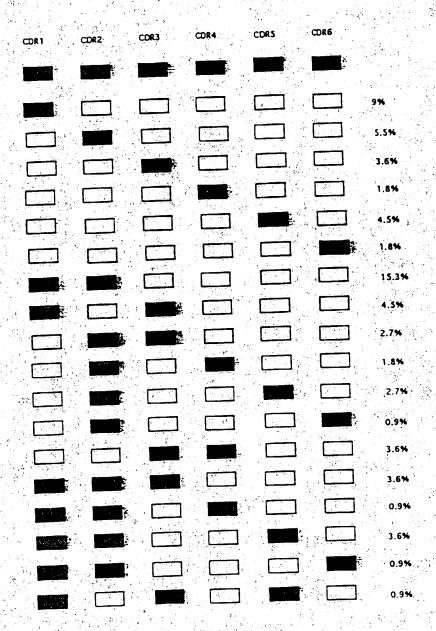
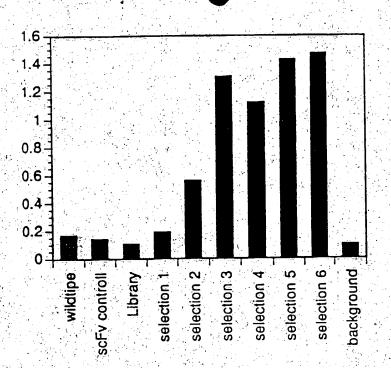


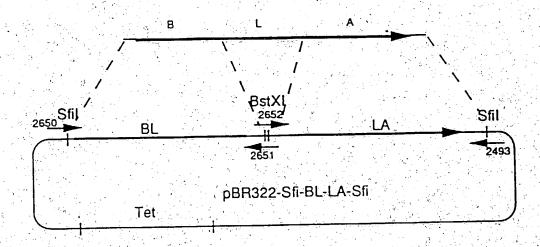
FIG. 7



RABBIT

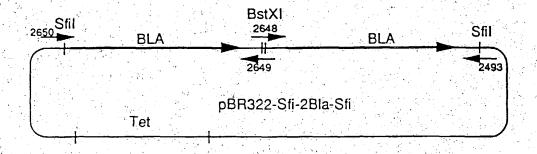
FIG. 8

In vivo recombination via direct repeats - Intraplasmidic



Cell	Tet colonies	Amp colonies	Colony PCR
rG-1	131	21	3/3 at 1 kb
JC8679	123	31	4/4 at 1 kb
vector control	51	0	

In vivo recombination via direct repeats - Intraplasmidic



Cell	Tet colonies	Amp colonies	Colony PCR	
TG-1	28	54	7/7 at 1 kb	
JC8679	149	117	3/3 at 1 kb	
vector control	51	Ö		

Homologous Recombination by Fragment Electroporation

Comment	Efficient insertion by homologous recombination with co-electroporated vector	100x less efficient than 1 fragment	Homologous insertion depends on free ends.	If vector is in cells already, high efficiency occurs even though vector is uncut	- control: non-homologous insertion into chromosome	- control: No amp background	
% homologous recombination	.100% (N=14)	100% (N=2)		70% (N=7)			
Amp Tet colonies	1,500	16	0	10,000	0	0	
Amp colonies	4,000	2,000	19	5,000 fi	2,000	N.D.	
Approach	1- cut vector 1 insert JC8679	2- cut vector 2 inserts JC8679	3- uncut vector 1 insert JC8679	4- no vector 1 insert JO8679::pUCSfi-Sfi	5- no vector 1 insert JC8679	6- cut vector no insert JC8679	

Homologous recombination colony PCR:



FIGURE 11

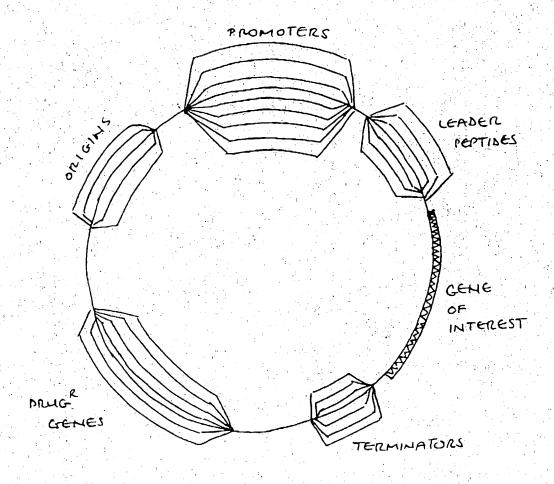


FIGURE 12

EXAMPLES OF C	ASSETTES FOR BACTERIAL VECT	ors:
A PRI B	B Minorm C	LACO LACP E
A ORI - PUC B	B - merume C D	LACI LACO LACE- &
A ORI - PER B	B TETRACYCULA C	LACIQ LACO LACP> €
A ORI PBR B	B TETRACYCLIM C)	LACP→ G
A PAT	B CHLOCALIPHONICA C	CACUVS-3E
A CONTRACTOR	B CHIPAN MENICOLL C	PHOA P-> E
	B - KAHAMYCINE (TACP E
	B KUNAMACINE C	ARABAD ARAP-
	3 -> STREETONYCH ?	TRPP- 6
	3 STREATONYUM C	λ Pr → €
동하면 하실했다고 하는 사람		cI857 \ PL→ E
		r Tagana and the same of the
TERMINATORS		cl \ Pc->
F MI3 G		
\$ ØX174 G		
F PILOP G	SIGNAL PEPTIDES	
F TEP G	E OMPF F	
P 012	F.	
	F	
SS DNA ORI		
		FIGURE 13
m13	e pel B F	
	E BLA	